

LISTING OF THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS

1-20. (Canceled)

21. (Previously presented) A method for processing location information request initiated by a User Equipment (UE), comprising:

receiving, by a Central Network (CN), a request for location information from a target UE, and the CN obtaining a location estimate of the target UE;

the CN sending the location estimate of the target UE to a Visited Gateway Mobile Location Center (V-GMLC) of the target UE; and

the V-GMLC sending the location estimate of the target UE to the target UE via the CN.

22. (Previously presented) The method according to claim 21, further comprising:

according to a pre-stored V-GMLC address information, the CN sending the location estimate of the target UE to the V-GMLC.

23. (Previously presented) The method according to claim 21, wherein, after the step of the CN sending the location estimate of the target UE to the V-GMLC of the target UE, the method further comprises:

the V-GMLC generating charging information of the target UE.

24. (Previously presented) The method according to claim 21, wherein, after the step of the CN sending the location estimate of the target UE to the V-GMLC of the target UE, the method further comprises:

the V-GMLC returning to the CN a response for the location estimate of the target UE.

25. (Previously presented) The method according to claim 21, further comprising:

receiving, by the CN, a requester identifier from the target UE;

the CN providing the V-GMLC with the requester identifier; and

the V-GMLC sending the location estimate of the target UE to the requester.

26. (Previously Presented) The method according to claim 25, wherein, the step of the V-GMLC sending the location estimate of the target UE to the requester comprises:

the V-GMLC determining whether the V-GMLC can directly access the requester according to the requester identifier, if the V-GMLC can directly access the requester according to the requester identifier, the V-GMLC directly sending the location estimate of

the target UE to the requester; otherwise, according to the requester identifier, the V-GMLC finding a GMLC that can directly access the requester, and sending the location estimate of the target UE to the requester through the GMLC.

27. (Previously presented) The method according to claim 25, wherein, after the step of the V-GMLC sending the location estimate of the target UE to the requester, the method further comprises:

the requester returning a first response for the location estimate of the target UE to the V-GMLC, and

the V-GMLC returning a second response for the location estimate of the target UE to the CN.

28. (Previously presented) The method according to claim 26, wherein, after the step of the V-GMLC directly sending the location estimate of the target UE to the requester, the method further comprises:

the requester returning a first response for the location estimate of the target UE to the V-GMLC, and the V-GMLC returning a second response for the location estimate of the target UE to the CN; and

after the step of the V-GMLC finding the GMLC that can directly access the requester and sending the location estimate of the target UE to the requester through the GMLC, the method further comprises:

the requester returning a first response for the location estimate of the target UE to the GMLC, the GMLC returning a second response for the location estimate of the target UE to the V-GMLC, and the V-GMLC returning a third response for the location estimate of the target UE to the CN.

29. (Previously presented) The method according to claim 26, wherein, the step of receiving, by the CN, the requester identifier from the target UE further comprises:

receiving, by the CN, address information of the GMLC that can access the requester from the target UE;

the step of the CN sending the location estimate of the target UE to the V-GMLC of the target UE further comprises:

the CN providing the address information of the GMLC to the V-GMLC; and

the step of the V-GMLC sending the location estimate of the target UE to the requester comprises:

the V-GMLC receiving the location estimate of the target UE and sending the location estimate of the target UE as well as the requester identifier to the GMLC according to the address information of the GMLC; the GMLC receiving the location estimate of the target UE and sending the location estimate of the target UE to the requester according to the requester identifier.

30. (Previously Presented) The method according to claim 29, wherein, after the step of the GMLC receiving the location estimate of the target UE and sending the location

estimate of target UE to the requester according to the requester identifier, further comprising:

the requester returning a first response for the location estimate of the target UE to the GMLC, the GMLC returning a second response for the location estimate of the target UE to the V-GMLC, and the V-GMLC returning a third response for the location estimate of the target UE to the CN.

31. (Previously Presented) The method according to claim 21, wherein, the CN is any one of: a Mobile Switch Center (MSC), an MSC Server and a Serving GPRS Support Node.

32. (Previously presented) The method according to claim 21, wherein, the step of receiving, by the CN, the request for location information from the target UE comprises:

receiving, by the CN, an LCS MO-LR Location Services Invoke from the target UE.

33. (Previously presented) A method for processing location information request initiated by a User Equipment (UE), comprising:

a Center Network (CN) receiving a request for location information and a requester identifier, from a target UE;

the CN obtaining the location estimate of the target UE;

the CN sending the location estimate of the target UE to a V-GMLC of the target UE;

the V-GMLC sending the location estimate of the target UE to the target UE via the CN;

the V-GMLC sending the location estimate of the target UE to a H-GMLC; and
the H-GMLC sending the location estimate of the target UE to the requester.

34. (Previously presented) The method according to claim 33, wherein, after the step of the CN sending the location estimate of the target UE to a V-GMLC of the target UE, the method further comprises:

the V-GMLC generating charging information of the target UE.

35. (Previously presented) The method according to claim 33, wherein, after the step of the V-GMLC sending the location estimate of the target UE to a H-GMLC, the method further comprises;

the H-GMLC generating charging information of the target UE.

36. (Previously presented) The method according to claim 33, wherein, the step of the H-GMLC sending the location estimate of the target UE to the requester comprises:

the H-GMLC determining whether the H-GMLC can directly access the requester according to the requester identifier, if the H-GMLC can directly access the requester according to the requester identifier, the H-GMLC directly sending the location estimate of the target UE to the requester; otherwise, according to the requester identifier, the H-

GMLC finding a GMLC that can directly access the requester and sending the location estimate of the target UE to the requester through the GMLC.

37. (Previously presented) The method according to claim 33, wherein, after the step of the H-GMLC sending the location estimate of the target UE to the requester, the method further comprises:

the requester returning a response for the location estimate of the target UE to the H-GMLC, the H-GMLC returning a response for the location estimate of the target UE to the V-GMLC, and the V-GMLC returning a response for the location estimate of the target UE to the CN.

38. (Previously presented) The method according to claim 36, wherein, after the H-GMLC directly sending the location estimate of the target UE to the requester, the method further comprises:

the requester returning a first response for the location estimate of the target UE to the H-GMLC, the H-GMLC returning a second response for the location estimate of the target UE to the V-GMLC and the V-GMLC returning a third response for the location estimate of target UE to the CN; and

after the step of the H-GMLC sending the location estimate of the target UE to the requester through the found GMLC, further comprising:

the requester returning a response for the location estimate of the target UE to the GMLC, the GMLC returning a response for the location estimate of the target UE to the H-

GMLC, the H-GMLC returning a response for the location estimate of the target UE to the V-GMLC and the V-GMLC returning a response for the location estimate of target UE to the CN.

39. (Previously presented) The method according to claim 33, wherein, the step of the CN receiving the request for location information and the requester identifier from the target UE further comprises:

the CN receiving address information of the GMLC that can access the requester from the target UE;

the step of the CN sending the location estimate of the target UE to the V-GMLC of the target UE further comprises:

the CN providing the address information of the GMLC to the V-GMLC;

the step of the V-GMLC sending the location estimate of the target UE to the H-GMLC further comprises:

the V-GMLC providing the address information of the GMLC to the H-GMLC; and

the step of the H-GMLC sending the location estimate of the target UE to the requester comprises:

the H-GMLC receiving the location estimate of the target UE and sending the location estimate of the target UE as well as the requester identifier to the GMLC according to the address information of the GMLC;

the GMLC receiving the location estimate of the target UE and sending the location estimate of the target UE to the requester according to the requester identifier.

40. (Previously presented) The method according to claim 39, wherein, after the step of the GMLC receiving the location estimate of the target UE and sending the location estimate of the target UE to the requester according to the requester identifier, the method further comprises:

the requester returning a first response for the location estimate of the target UE to the GMLC, the GMLC returning a second response for the location estimate of the target UE to the H-GMLC, the H-GMLC returning a third response for the location estimate of the target UE to the V-GMLC and the V-GMLC returning a fourth response for the location estimate of target UE to the CN.

41. (Previously Presented) The method according to claim 33, wherein, the CN is any one of: a Mobile Switch Center (MSC), an MSC Server and a SGSN.

42. (Previously presented) The method according to claim 33, wherein, the step of the CN receiving the request for location information from the target UE comprises:

the CN receiving an LCS MO-LR Location Services Invoke to from the target UE.

43. (Previously presented) The method according to claim 21, further comprising:

sending, by the V-GMLC, the location estimate of the target UE to a GMLC that can directly access a specified requester; and

providing, by the GMLC, the specified requester with the location estimate of the target UE.

44. (Previously presented) The method according to claim 21, wherein the location estimate of the target UE carries location information of the target UE, a requester identifier, a target UE identifier and GMLC address information.